

CertaDrive 35W 24VDC 220/240V

The constant voltage driver for LED applications

High frequency, compact size and long lifetime. The constant voltage LED drivers, operation with 24VDC LED module, LED strip and other LED application where need 24VDC constant voltage.

Product features and benefits

- Optimal performance thanks to the dedicated LED solution
- · Long lifetime, >40,000 hours
- Safe operation, SELV compliant, CB
- Complete protection, overload, short circuit, overheat protection
- Installation friendly, independent and Class II
- · CQC, CE, CB certificate

Applications

- Hotel, partially light the space, living rooms, corridors
- Retail & shopping mall, cabinet or shelf lighting
- Restaurant, enhance the ambience, create the mood
- Decoration, create space and layers, light sculpture

Quality

We ensure optimum quality regarding:

- System supplier
 As manufactures of lamps and
 goar Philips ensures that from
- gear, Philips ensures that, from the earliest development stage, optimum LED light source and gear performance is designed
- International supplier
 Philips LED transformer fully comply with SELV standards, IEC 61347-1, IEC 61347-213

Electrical input data

Value	Unit	Condition
220 240	Vac	Performance
198 264	Vac	Operational
50 60	Hz	Performance
45 66	Hz	Operational
0.17	А	230Vac, full load
42	W	230Vac, full load
≥0.95		230Vac, full load
≥0.90		230Vac, 50% load
≤20	%	230Vac, full load
≥86	%	230Vac, full load
	220 240 198 264 50 60 45 66 0.17 42 ≥0.95 ≥0.90	220 240 Vac 198 264 Vac 50 60 Hz 45 66 Hz 0.17 A 42 W ≥0.95 ≥0.90 ≤20 %

Electrical output data

Specification item	Value	Unit	Condition
Regulation method	Constant Voltage	2	Rated output voltage: 24VDC
Output voltage range	23.0 25.3	VDC	
Output current range	0.25 1.5	ADC	
Output short-circuit current	<7 / 1.8	Ap / Arms	Hiccup mode
Output voltage ripple	<3500	mVp-p	
Output power range	6 35	W	
Line regulation	<3	%	
Load regulation	<5	%	
Turn-on delay	<1.2	S	
Output voltage rise time	<50	ms	
Hold-up time	<10	ms	

Logistical data

Specification item	Value
Product name	CertaDrive 35W 24V 220V/240V
European Order Code	871869679691700
Logistic code 12NC	929001424006
Pieces per box	20pcs

Wiring & Connections

Specification item	Value	Unit	Condition
Input wire cross-section	0.75.	mm²	Solid wire, 300 +/- 10mm length
Input cable diameter	0.82	mm	
	18	AWG	
Input wire strip length	9	mm	
Output wire cross-section	0.75	mm²	Solid wire, 300 +/- 10mm length
Output cable diameter	0.82	mm	
	18	AWG	
Output wire strip length	9	mm	
Maximum output cable length	1.0	m	CISPR15: between driver and LED module/strip

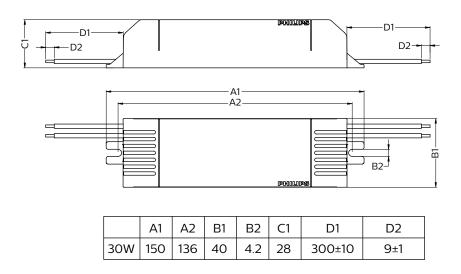


Insulation

Insulation	Mains	LED
Mains	N/A	SELV (double)
LED	SELV (double)	N/A

Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	150	mm	
Width (B1)	40	mm	
Height (C1)	28	mm	
Fixing hole distance (A2)	136	mm	
Fixing hole diameter (B2)	4.2	mm	
Weight	185	gram	



Operational temperatures and humidity

Specification item	Value	Unit	Condition
Driver ambient temperature	-20+50	°C	
Maximum housing temperature	85	°C	
Relative humidity *	1090	%	Non-condensing
Noise and hum	≤20	dB	
Driver IP rating	IP40		Driver is for build-in use

^{*:} The CertaDrive 35W/24VDC driver is intended for built-in indoor use only. The driver should not be directly exposed to the elements like snow, water and ice.

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-40+85	°C	
Relative humidity	1095	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Rated driver lifetime	40,000	hours	Driver Tamb ≤45°C
			Maximum failures = 10%

Features

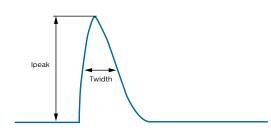
Specification item	Value	Remark	Condition
Open load protection	Yes		Automatic recovering
Short-circuit protection	Yes		Automatic recovering
Overheat protection	Yes		Automatic recovering
Overload protection	Yes		Automatic recovering
Hot wiring	Yes		
Suitable for insulation class applications	II		Per IEC60598

Certificates and standards

Specification item	Value
Approval marks	CE / CCC / SELV / CB / RoHS

Inrush current

Specification item	Value	Unit	Condition
Inrush current Ipeak	8	А	Input voltage 230Vac
Inrush current Twidth	120	μs	Input voltage 230Vac, measured at 50% Ipeak
Typical number of drivers	Max. 28	pcs	MCB 16A B type, mains impedance 200m Ω + 400 μ H



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МСВ	Rating	Relative number of LED drivers *
В	6A	37%
В	10A	63%
В	13A	81%
В	16A	100%
В	20A	125%
В	25A	156%
С	6A	63%
С	10A	104%
С	13A	135%
С	16A	170%
С	20A	208%
С	25A	260%
D	6A	125%
D	10A	104%
D	13A	135%
D	16A	170%
D	20A	208%

^{*:} Please check that cable cross sectional area corresponds with MCB rating

Driver touch current

Specification item	Value	Unit	Condition
Typical touch current	<0.7	mA peak	Acc. IEC61347-1 at 230Vac 50/60Hz
			LED module contribution not included

Surge immunity

Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1.0 / 0.5	kV / kA	L-N, acc. IEC61000-4-5. 2 Ohm, 1.2/50µs, 8/20µs
Mains surge immunity (comm. mode)	2.0	kV	L/N – GND acc. IEC61000-4-5. 12 Ohm, 1.2/50µs, 8/20µs



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